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Richard, A. [US/US]; 191 Leete Street, West Haven, CT 06516 (US). LEACH, Martin [GB/US]; 884 School Street, Webster, MA 01570 (US).

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(74) Agent: ELRIFI, Ivor, R.; Mintz, Levin, Cohn, Ferris,

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Glovsky and Popeo, P.C., One Financial Center, Boston, MA 02111 (US).

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(71) Applicant (for all designated States except US): CURA-GEN CORPORATION [US/US]; 555 Long Wharf Drive, 11th Floor, New Haven, CT 06511 (US).

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(75) Inventors/Applicants (for US only): SHIMKETS, ning of each regular issue of the PCT Gazette.

#### (54) Title: NUCLEIC ACIDS INCLUDING OPEN READING FRAMES ENCODING POLYPEPTIDES; "ORFX"

(57) Abstract: The present invention provides open reading frames encoding isolated polypeptides, as well as polynucleotides encoding ORFX and antibodies that immunospecifically bind to ORFX or any derivative, variant, mutant, or fragment of the ORFX polypeptides, polynucleotides or antibodies. The invention additionally provides methods in which the ORFX polypeptide, polynucleotide and antibody are used in detection and treatment of a broad range of pathological states, as well as to other uses.

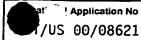
# INTERNATIONAL SEARCH REPORT

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4	00/08621

A. CLA	SSIFICATION OF SUBJECT MATTER			03 00/08621
ÎPC	7 C12N15/12 C07K14/47 C12N15/11 C12N15/62	C07K16/18 A01K67/027	G01N33/566 A61K38/00	C12Q1/68
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C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropri	iate, of the relevant pass	ages	Relevant to claim No.
				Tienevani to claim No.
Α	COLE S.T.: "Deciphering	the biology o	f	
	Mycobacterium tuberculosi complete genome sequence.	s from the		
	NATURE,			
	vol. 393, 11 June 1998 (19 XP002144873	998-06-11),		
	sequence			1
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A	LAMERDIN J.E.: "Sequence	analysis of a	3	
1	3.5 Mb contig in human 19p a serine protease gene clu	113.3 containi Ister."	ing	
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-	8 February 1999 (1999-02- sequence	08), XP002144	1874	
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	r documents are listed in the continuation of box C.	Pat	ent family members are list	ed in annex.
	gories of cited documents :	"T" later doc	ument published after the	nternational filing data
document defining the general state of the art which is not considered to be of particular relevance  "T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the				
" earlier doc	arlier document but published on or after the international "X" document of particular relevance: the claimed invention			
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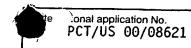
Form PCT/ISA/210 (second sheet) (July 1992)





	1.	/US 00	9/08621
C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
P,X	M.D. ADAMS ET AL.: "The genome sequence of Drosophila melanogaster." SCIENCE, vol. 287, 24 March 2000 (2000-03-24), pages 2185-2195, XP002144875 the whole document		6

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Box I	Observations where certain claims were found unsearchabl (Continuation of it m 1 of first she t)
This late	· · · · · · · · · · · · · · · · · · ·
I nis inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.:
	because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 27 to 32 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3	Claims Nos.:
·	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II C	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Intern	national Searching Authority found multiple inventions in this international application, as follows:
	The second of th
9	see additional sheet
1. As	s all required additional search fees were timely paid by the applicant, this International Search Report covers all earchable claims.
2. As	s all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.
of	any additional fee.
3. As	s only some of the required additional search fees were timely paid by the applicant, this International Search Report evers only those claims for which fees were paid, specifically claims Nos.:
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ı. X No	required additional search fees were timely paid by the applicant. Consequently, this International Search Report is
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Ci	laims 1 to 32 partially
Remark on F	Pr t st
lemark on F	Pr t st  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1998)



## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claim: 1 to 32 partially

Isolated nucleic acid molecule encoding a polypeptide comprising an amino acid sequence that is at least 85% identical to a polypeptide including an amino acid sequence selected from a group consisting of SEQ ID NO 2n wherein n is 1, oligonucleotides less than 100 nucleotides in length and comprising at least 6 contiguous nucleotides from the above sequence, polypeptides encoded by said nucleotides, antibodies that bind to said polypeptide, pharmaceutical composition comprising said polypeptide and methods of detection, screening, therapeutic uses involving said polypeptide.

#### 2. Claim : .

Inventions 2 to 3161

claims 1 to 32 partially:

Isolated nucleic acid molecule encoding a polypeptide comprising an amino acid sequence that is at least 85% identical to a polypeptide including an amino acid sequence selected from a group consisting of SEQ ID NO 2n wherein n is 2 to 3161, oligonucleotides less than 100 nucleotides in length and comprising at least 6 contiguous nucleotides from the above sequence, polypeptides encoded by said nucleotides, antibodies that bind to said polypeptide, pharmaceutical composition comprising said polypeptide and methods of detection, screening, therapeutic uses involving said polypeptide.

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